MECHANICS OF MATERIALS

Atomistic Simulations Linked to Experiments to Understand Mechanical Behavior: A MPMD Symposium in Honor of Professor Diana Farkas

This symposium is to honor Professor Diana Farkas’s impact in the field of computational materials modeling to uncover the mechanical behavior of materials. Her contribution to the field of atomistic simulations spans over four decades with a focus on intermetallic alloys, fracture studies and nano-crystalline materials. To honor the broad range of Professor Farkas’s research on metals, intermetallic alloys, nanoindentation, and nano-porous materials, the symposium will highlight work that integrates computational and experimental investigations by utilizing a multidisciplinary approach. The symposium will focus on mechanical behavior of materials, computational modeling, experimental work and applications.

This symposium welcomes contributions in mechanical behavior of materials, from the following topics:

• Nanoscale materials deformation and fracture
• Intermetallic composites and superalloys
• Defects/dislocations in intermetallic alloys and their evolution
• Atomistic and mesoscale modeling approaches to study defect-interface interactions
• Experimental approaches to characterize defects and mechanisms at interfaces and different scales

ORGANIZERS
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